

ABSTRACT

An apparatus for eliminating reflection of an input ~~RF~~ signal by
~~electric~~

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M.D.

providing an impedance matching region between an input region and

mutual operation region is disclosed. The impedance may be adjusted

by varying the width of a signal electrode and the interval between the

signal electrode and ground electrodes.

The apparatus preferably eliminates any reflection of signals in

Mach-Zehnder optical modulator that is generated when velocity

matching is performed for the light propagated through the optical

Feb. 24, '04 waveguide and the ~~RF~~ signal propagated through the signal electrode
~~electric~~

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and an electrode interval is varied for lowering the drive voltage

because an impedance of the mutual operation region becomes lower

than the input impedance.